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**Wiki Assignment #4**

Cicconi, M. (2014). Vygotsky meets technology: A reinvention of collaboration in the early childhood mathematics classroom. *Early Childhood Education Journal*, *42*(1), 57-65. doi:10.1007/s10643-013-0582-9

In this article it discusses how Vygotsky’s traditional role of the more knowledgeable other (MKO) has been transformed due to the advancements in technology. With the advancement of Web 2.0 (an improved version of the internet) it enables students to become fully immersed in this new culture of technology because they are able to have more of an interactive experience. They are able to use interactive geographic maps, have live communications with students on the other side of the world, and create and upload videos. This article also discusses three interactive tools: Voki, VoiceThread, and Vodcasts and these three tools help to empower students in an early childhood classroom when it comes to math.

Gu, X., Zhu, Y. & Guo, X (2013). Meeting the “digital natives”: understanding the acceptance of technology in classrooms. *Educational Technology & Society*, *16* (1), 392–402.

Over the past few decades, technology has been rapidly developing and there are continuing efforts to integrate technology in the classrooms. This article focused on the assessing the integration of technology into the classroom. They aimed to understand the differences between the students and teachers and their acceptance of technology into the classroom. The participants in this study were chosen by random and a research model was used to collect data. The results from this study show that there is a difference between teachers and students with their views on technology. The results indicated that there is a difference with regards to how technology is utilized in the classroom and how the importance of technology is perceived. Based on these results it gives educators a better understanding of how the new millennium learners learn and how the administrators can provide these learners with a proper classroom that has appropriate technology products to support their needs.

Means, B., Olson, K., & Singh, R. (1995). Beyond the classroom: restructuring schools with technology. *The Phi Delta Kappan,* *77*(1), 69-72.

In this article the author discusses the benefits of having technology in the classroom. According to Means she says “technology can provide students with supports for storing and manipulating information” (pg 69). In the article the author discusses that for teacher to feel more comfortable with technology is to give the teachers their own personal computers. This will give teachers the opportunity to learn how to use a computer and give them a better understanding on how to integrate technology in their classroom. Students can benefit from using technology by having schools create a computer room where they can go and have access to computers. By giving students this type of access they can learn how to navigate different software programs, and the internet. Technology is an important part of the school life and should be integrate into classrooms to make learning better.

Schmid, E. C. (2008). Potential pedagogical benefits and drawbacks of multimedia use in the English language classroom equipped with interactive whiteboard technology. *Computers & Education*, *51*(4), 1553-1568.

This article discusses and analyzes the integration of an interactive whiteboard in and English language classroom. This study was conducted over eight weeks and there were twenty-nine students who participated. For this study they used the interactive whiteboard to help enhance the lesson being taught. The results from this study showed that the interactive whiteboard helped with teaching different types of learners. This study focused on how technology makes lessons go more smoothly and help keeps things on track. For example, the use of hyperlinks made transitions easily between topics. This research shows the benefits of having an interactive white board in class, and how it can enhance lessons being taught to older students.

Carlin, A., Guthrie, R. (2004). Waking the dead: using interactive technology to engage passive listeners in the classroom. *Proceeding of the Tenth Americas Conference on Information System,* 2952-2959

This article discusses a school who studied and learned students perceptions about the value of the Audience Response System. This type of technology consists of an eight-button response pad and it transmits student responses to a receiver that is connected to the computer in the classroom. The students who used this type of technology were in college and they were skilled with computers. Based on the results the students thought the response pad was good to have in the classroom, and they had a positive experience. The teachers also had a positive experience using the response pad, and they liked that it engaged students and it was a way for all of them to participate.

Cordes,C., Miller,E. (2000). Fool’s gold: a critical look at computers in childhood. *Alliance for childhood,* 4-103

In this report it examines the potential harms of having technology in the classroom for early childhood and elementary classrooms. This report talks about the attempts to push in technology in the classroom and the effects it has on learning things traditionally. The report then explains the harmful effects of using the computers and how it can effect them physically. The authors then go on to explain that schools and families should provide children with a healthy childhood and not one where technology is taking over their lives. This report goes on the explain the harmful effects technology can have on students.

Gardner, H. (2000). Technology remakes the schools. *Futurist*, *34*(2), 30-32.

In today’s society all educators need to adapt to the technologically advanced world in which many schools operate. Many schools today have computers and networking capabilities, but the future of education will be organized primarily around the computer. Computer technology puts all of the world’s information right at a person’s fingertips. Computers permits a degree of individualization such as personalized coaching and tutoring. Computer software programs can be geared toward helping a student based on their individual needs. New and creative approaches to teaching must be developed to prepare students for changing roles they will have to assume in the future.

Selwyn, N., & Facer, K. (2014). The sociology of education and digital technology: past, present and future. *Oxford Review of Education*, *40*(4), 482-496.

Classrooms and other formal learning environments are filled with computers, digital softwares and there is a growing amount of educational word is being conducted on a “virtual” basis. One of the most significant digital issues that captured that attention of sociologist is the temporal and spatial expansion of educational processes and practices through technological means. Sociologists have come to the conclusion that digital technologies are seen to be enabling educational engagement regardless of the place, setting, and space.

Inan, F. A., & Lowther, D. L. (2010). Factors affecting technology integration in K-12 classrooms: a path model. *Educational Technology Research & Development*, *58*(2).

The purpose of this study was to examine the direct and indirect effects of teachers’ individual characteristics and perceptions of environmental factors that can influence the way they integrate technology in the classrooms. In an effort to improve student learning almost every school has internet access and computer to help students in their learning. Unfortunately, increased availability of technology in the schools does not exactly lead to improvement in classroom practices. Technology can be grouped primarily into three broad categories; technology for instructional preparations, technology as a learning tool, and technology for instructional delivery. A research based path model was developed to explain the relationships between these factors and was tested on 1,382 Tennessee public school teachers. Based on the results form this study teachers’ readiness had the highest effect on technology integration. This is a very important factor in the model because it can carry the most indirect effects on technology integration. Overall support and computer proficiency had the second and third effect on technology integration.

Carver, L. B. (2016). Teacher perception of barriers and benefits in K-12 technology usage. *Turkish Online Journal Of Educational Technology - TOJET*, *15*(1), 110-116.

This study explores K-12 teacher’s perceptions of the benefits and barriers of technology integration in the classrooms. The sample was composed of 68 students who were enrolled in online classes. An anonymous online survey was conducted for data. The results indicated that the first barrier that teachers and students come to is the availability of technology. Equipment availability has the biggest impact on weather technology can be incorporated in the classroom. Also according to the results, teachers said that a reason that they chose to use technology in their classroom was because they felt that it resulted in increased student engagement. Once teachers determined that technology was available to them that is when they considered how technology can help enhance their lesson.